

**BIP-5 Instrument for Investigation of Machine
Vibration and Dynamic Balancing of Rotors, by M. A.
Branovskiy.**

**RUSSIAN, per, Elektricheskiye Stantsii, No 10,
1960, pp 47-51.**

MLL N. 3012

Sci - Engr

Feb 62

186,853

Khazan, S. I.
OVERHAUL OF THE END RINGS OF THE ROTORS
OF LARGE TURBO-GENERATORS (Remont Bandazh-
nykh Kolets Rotorov Krupnykh Turbogeneratorov) tr. by
D. R. H. Phillips. 25 Nov 60 [6]p. Trafford Park
trans. no. 2902; [DSIR LLU] M. 3011.
Order from OTS or SLA \$1.10

61-27585

Trans. of [Elektricheskie Stantsii] (USSR) 1960, v. 31,
no. 10, p. 89-91.

DESCRIPTORS: *Turbines, *Generators, Turbine
wheels, Maintenance, Insulation

A description is given of a technique used in preventing
the development of faults in rotor end rings, by placing
an insulating lining between the ring and the rotor body.

(Engineering--Electrical, TT, v. 6, no. 9)

61-27585

I. Khazan, S. I.
II. AEI TP/T-2902
III. DSIR LLU M. 3011
IV. Associated Electrical
Industries, Ltd.
(Gr. Brit.)

185600

Office of Technical Services

(DC-4600/5)

Soviet Power Engineering on the Forty-Third
Anniversary of the October Revolution, 3 pp.

RUSSIAN, per, Elektricheskiye Stantsii, No 11,
1960, pp 2-4.

JPRS B035

USSR

Pol

Sci - Electron

May 61

150,736

Problems of the Effect of Water-Turbine Governing
on the Dynamic Stability of the Generator, by
T. L. Zolotarev.

RUSSIAN, per, Elek Stantsii, No 11, 1960, pp 36-40.

MLL M. 3586

Sci - Engr

Jul 62

207, 775

Fluctuations in Steam Temperature and Load of Steam
Turbines, by B. L. Levchenko.

RUSSIAN, per, Elek Stants, Vol XXXI, No 12, 1960,
pp 37-41.

MLL N. 4666

Sci - Engr
Jun 62

201, 029

The Properties and Characteristics of Hard
Glass, by N. A. Nikolayev, et al.

RUSSIAN, per, Elekt Stantail, No 12, 1960,
pp 64-70.

C.B. Tr 2057

Sci - Phys

233, 254

Jun 62

Unbalance of Flexible Rotors, by S. I.
Mikunis.

RUSSIAN, per, Elektr Stantsii,
No 11, 1960, pp 56-69.

MLL W.3330

Sci - Engr

Apr 62

193,926

On the Expediency of Manufacturing 500-MW
Turbines in the Single-Shaft Design, by L. S.
Popyrin.

RUSSIAN, per, Elek Stantsii, No 1, 1961, pp 24-27.

NLL M. 3591

Sci - Engr

Jul 62

207,781

Automatic Frequency Control With Economic Load
Distribution, by N. P. Klyuver, D. V. Reshetnikov

RUSSIAN, per, Elek Stantsii, No 1, 1961, pp 44-49

NIA M. 6332

Bo1 - Engr

Nov 62

217.556

Choice of Interphase Insulation In
Very High Voltage Networks, by D. E.
Artemov and S. S. Shur.
RUSSIAN, per, Elekt. Stantsii, 1961,
Vol 32, No 1, pp 63-69.
NLL 9022.09 1964 (3520) (On Loan)

Aug 65

286,495

Earthing Systems for 110-500kV Overhead
Transmission Lines, by A. L. Vainer, A. N.
Sherentsis.

RUSSIAN, per, Elek Stantsii, Vol XXXII, No 1,
1961, pp 78-85.

ELL M. 4802

Sci - Electron

207.769

Jul 62

Musatov, T. P. and Soroka, I. F.
UMBAU VON BLINDLEISTUNGSMASCHINEN FUER
REAKTORBETRIEB (Construction of Compensators
for Reactor Service). (text in German).
Order from TIB \$0.70

Trans. of Elektricheskie Stantsii (USSR) 1961,
[v. 32, no. 1] p. 86-87.

DESCRIPTORS: *Motors, *Reactors.

(Engineering--Electrical, TT, v. 9, no. 6)

62-27191

I. Musatov, T. P.
II. Soroka, I. F.
III. Technische Informations-
bibliothek Hannover

Office of Technical Services

PB-

(BF-1200/7)

Introduction of New Means of Communication and
Equipment, by K. Ye. Mikhaylov, 4 pp.

RUSSIAN, per, Elek Stantsiy, No 2, 1961, pp 69-72.

JPRS 4652

USSR

155,444

Econ

Jun 61

Elimination of Vibration in a Lang Turbo-
Set, by A. M. ~~KSM~~ Kornienko.

RUSSIAN, per, Elektr Stantsii,
No 2, 19601, pp 72-74.

MLL M.3329

Sci - Engr

Feb 62

186,702

(NY-5500/6)

Introducing Television Techniques into Power
Engineering, by V. V. Kulikov, 13 pp.

RUSSIAN, per, Elektricheskiye Stantsii, Mar 1961,
pp 2-6.

JPRS 9866

USSR

168,642

Sci - Electron

Sep 61

CHANGING OVER FROM CENTRIFUGAL TO HYDRODYNAMIC
GOVERNING OF TURBINES, BY L. M. FEDOTOV.

RUSSIAN, PER, ELEK STANTSII, VOL XXXII, NO 3,
1961, PP 16-2L.

NLL M. 6335

SCI - ENGR

NOV 62

217,684

(NY-3000)

Rated and Continuous Maximum Power of
Steam Turbines and Generators for Them,
by A. D. Krikunchik, 6 pp.

RUSSIAN, per, Elektricheskiye Stantsii,
1961, pp 21-22.

JPRS 11732

USSR
Econ
Jan 62

178,064

Cleaning Steam Turbine Condensers With Rubber Balls,
by L. B. Zushmanovich.

RUSSIAN, per, Elek Stantsii, Vol XXXII, No 3,
1961, pp 26-33.

MLL M. 4887

Sci - Engr

Aug 62

207, 163

Investigation of Thermal Conditions and
Elimination of Overheating in a Hydrogenara-
tor Step Bearing, by A. E. Aleksandrov.

RUSSIAN, per, Elektricheskiye Stant.
No 3, 1961, pp 49-55.

NIL M.3468

Sci -- Engr

Apr 62

193,913

(DC-57926)

Certain Problems in Further Development of Thermal
Electric Power Stations and Power Grids, by G. S.
Zelevinskiy and A. M. Nekrasov,

^{per}
Russian, Monthly, Elektricheskiye Stantsii, 1961,
No. 4, Moscow, April 1961, pp 2-9.

4527
Econ/Electric Power
May 61

JPRS 8677

Dept Interior
AS36 454 8677

Anti-Corrosion Protection of Hydro-Mechanical
Equipment by Varnish Coating Materials, by
M. I. Finkelshtein, I. A. Zholondz'.

Rec.
POLISH, per., Elektricheski Stantsii,
Vol XXXII, No 4, 1961, pp 28-33.

GB/153/618

Sci-Chem
Feb 63

223,503

CORROSION PROPERTIES OF STEELS EI-847
AND EI-851 EXPOSED TO SUPERHEATED STEAM,
BY D. YA. KAGAN, L. S. ZHURAVLEV.

RUSSIAN, PER, ELEK STANTSII, VOL XXXII,
NO 4, 1961, PP 33, 34.

NLL M.4663

SCI - CHEM

JUN 62

199,109

Application of Gas Chromatography in the
Control of Power Station Boilers, by
A. K. Vnukov, R. P. Izedzik.
RUSSIAN, per, Elek Stantsii, Vol XXXII, No 5,
1961, pp 12-15.
NLL Ref: 9022.09 1964 (3297) (loan copy)

Sci
Aug 64

METHODS OF CALCULATING ECONOMIC LOAD DISTRIBUTION
IN COMBINED POWER SYSTEMS ON DIGITAL COMPUTERS, BY
V. S. SHAKHANOV.

RUSSIAN, PER, ELEK STANTSII, NO 5, 1961, PP 27-34.

NLL M. 3805

SCI - ELECTRON
USSR.
ECON
OCT 62

214,721

BASIC PRINCIPLES OF THE CONSTRUCTION OF A COMPUTER
FOR OPERATIVE CALCULATIONS OF ECONOMIC LOAD
DISTRIBUTION IN A COMBINED POWER SYSTEM, BY S. A.
GINZBERG, ET AL.

RUSSIAN, PER, ELEK STANTSII, NO 5, 1961, PP 35-41.

NLL M. 3804

SCI - ENGR

OCT 62

214,713

Protecting Power Systems From Frequency Surges,
by L. M. Levit.

RUSSIAN, per, Elek Stant, Vol XXXII, No 5,
1961, pp 71-75.

NLL RTS 2029

Sci - Electron

Aug 62

207,194

DETERMINING THE SUPER-TRANSIENT INDUCTIVE
REACTANCES OF TURBO-GENERATORS, BY N. L.
SAKHNOVSKIY.

RUSSIAN, PER, ELEK STANTSII, NO 6, 1961,
PP 84, 85.

NLL M. 3803

SCI - ENGR

OCT 62

214,180

Effect of Turn Short-Circuits in a Turbo-Generator
Rotor on Its State of Vibrations, by K. A.
Khudabashev,

RUSSIAN, per, Elek Stantsii, No 7, 1961,
pp 40-45.

ALL M. 3572

Sci - Electron

Jul 62

207,768

WORKING OF CARRIER CLAMP OF TYPE PG-5 -10A UNDER
CONDITIONS OF RELEASE OF SPLIT PHASE CABLES,
BY N. M. BOYEV.

RUSSIAN, PER, ELEK STANTSII, NO 7, 1961, PP 57-61.

NLL M. 6171

SCI - ENGR

OCT 62

214,711

(SF-1877)

Further Electrification of Agriculture, by T. A.
Tevosyan, 4 pp.

RUSSIAN, per, Elek Stantsii, No 8, 1961, pp 2-6.

JPRS 11708

USSR

181,573

Econ

Jan 62

(SV-1877)

New 2800 Mw Capacity Gres, by S. S. Rakita, 16 pp.

RUSSIAN, per, Elek Stantsii, No 8, 1961, pp 6-13.

JPRS 11708

USSR

Econ

Jan 62

181,574

A New State Regional Electric Power Plant Rated at
2800mw, by S. S. Rakita, 3 pp.

RUSSIAN, per, Elektricheskiye Stantsii, No 8, 1961,
pp 6-13.

Internatl Physical Index
Power Express
Vol I, No 3

USSR

200,982

Econ

Jun 62

(SF-1877)

Construction and Operation of an Open Power Plant, by
N. G. Lobanchenko, M. Kh. Guseynov, B. V. Frumen,
5 pp.

RUSSIAN, per, Klek Stantsii, No 8, 1961, pp 14-19.

JPRS 11708

USSR

181,575

Econ

Jan 62

Instruments for Measuring Contact Temperatures
in Conducting Parts, by A. I. Korolev,
RUSSIAN, per, Elektricheskie Stantsiy, Vol
XXXII, No 8, 1961, pp 85-86.
OTS TT 64-19889

Seppt66

309,105

The Dancing of Conductors on a 110 kV
Transmission Line, by L. A. Ratnikov.

RUSSIAN, per, Elek Stantsii, Vol XXXII, No 8,
1961, p 86.

NLL Ref. 9022.09 1963 (2,597)
(Loan)

Sci - Electron
Nov 63

242,252

(8F-1877)

Power Engineering in the USSR by the 22nd Party
Congress, 5 pp.

RUSSIAN, per, Klek Stantsii, No 9, 1961, pp 2-6.

JPRS 11708

USSR

181,162

Econ

Jan 62

The Technology of the Dynamic Balancing of
Turbo-sab Rotors on the Site of Their Installation, by S. I. Mikunin.

~~RUSSIAN~~
RUSSIAN, per, Elek Stantsii, No 9, 1961, pp 51-59.

NLL M 5040

Sci - Electronics
Apr 63

426, 906

Energy Potentialities of High Temperature Gas
Turbines, by D. I. Mariev.

RUSSIAN, per, Elektricheskiye Stantsii, Vol XXXII,
No 10, 1961, pp 18-22.

NEL M 375

Sci - Fuels
Mar 63

225,412

SWITCHING OF NO LOAD CURRENT OF 110kV
TRANSFORMERS OF UP TO 60MVA BY MEANS OF ISOLATORS
AND DISCONNECTING SWITCHES, BY L. S. BELEN'KI,
V. P. KOROBKOVA.

RUSSIAN, PER, ELEK STANTSII, VOL XXXII, NO 10,
1961, PP 43-47.

NLL M. 3866

SCI - ELECTRICITY

OCT 62

214,792

REINFORCING THE INSULATION OF ELECTRIC POWER LINES
IN THE AREAS OF INTENSE ATMOSPHERIC POLLUTION, BY
M. D. GLEIZER.

RUSSIAN, PER, ELEK STANTSII, VOL XXXII, NO 10,
1961, PP 61-65.

NLL M. 6168

SCI - ELECTRON

OCT 62

214,714

THE ASYNCHRONOUS STARTING OF A 50-MW, 1500R.P.M.
TURBO-GENERATOR, BY S. P. BOROVKOV, ET AL.

RUSSIAN, PER, ELEK STANTSII, NO 10, 1961,
PP 84-86.

NLL M. 3799

SCI - ENGR

OCT 62

214,176

(SF-1877)

New Standards of Technological Designing
of Thermo-Electric Power Stations, by
B. O. Loshak, 7 pp.

RUSSIAN, per, Elektricheskiye Stantsii,
No 11, 1961, pp 7-10.

JPRS 13533

191,667

USSR
Econ
Apr 62

TURBO-TYPE GENERATORS OPERATING AS SYNCHRONOUS
COMPENSATORS, BY V. A. MACHLIN, V. I. SOKOLOV.

RUSSIAN, PER, ELEK STANTSII, NO 11, 1961,
PP 33-36.

NLL M. 3798

SCI - ENGR

OCT 62

214,179

THE OPERATION OF TURBO- AND HYDROGENERATORS WITH
UNDER-EXCITATION, BY YA. D. BARKAN, I. I.
KUZNETSOV.

RUSSIAN, PER, ELEK STANTSII, NO 11, 1961, PP 50-53.

NLL M. 3797

SCI - ENGR

OCT 62

214,710

The Appearance of Inter-Turn Short-Circuits
in the Windings of the Moving Rotors in Turbo-
Generators, by R. M. Manevich.

RUSSIAN, per, Elek Stantsii, No 11, 1961, pp 53-56.

NEL M 5036

Sci - Electron
Mar 72 63

226,808

Protection of Transformer Insulation From
Humidification and the Stabilization of Transformer
Oil Properties, by A. A. Koz'ma.
RUSSIAN, per, Elektricheski Stantsii, No 11, 1961,
pp 76-79.
GB/153/625

Sci - Engr
Apr 64

253,355

Automatic Recording of Internal Overvoltages in
High-Voltage Networks, by Yu. A. Mihailov, I. F.
Polovoi, I. V. Chernyayev, 13 pp.

RUSSIAN, per, Elektricheskie Stantsii, Dec,
No 12, 1961, pp 47-50.

(LOAN) NLL Ref. 9022.09 1963 (2,726)

CIA FID XX-1329

NOT FOREIGN DISSEM

OTS 77-63-23946 (8pp)

Sci

Feb 63

221,695

USIB INTERNAL USE ONLY

(SP-1877)

Scientific-Technical Problems Connected With
Carrying Out Lenin's Idea of Electrification,
15 pp.

RUSSIAN, per, Elektricheskiye Stant, No 1,
1962, pp 2-5.

JPRS 13717

USSR
Econ
Sci - Engr
May 62

196,989

Method of Calculating When Washing is Due
for Supercritical Pressure Boilers, by
E. P. Dick, M. D. Panasenko.

RUSSIAN, per, Elekt Stantsiy, Vol XXXIII,
Oct 1962, pp 17-19.

l
*UKAEA/Windscale
Tr 49

Sci - Phys

May 63

Measuring the Bending Stress in Austentic-Steel
Steam Pipes, by V. A. Nakhalov, V. S. Demb.

RUSSIAN, per, Elektricheskiye Stantsii,
Vol XXXIII, May 1962, pp 21-24.

⌘ *UKAEA Windscale
Tr No 32

Sci - Min/Met

28 Feb 1963

Impact Strength of Cr-Mo-V Steel, by E. Ya. Yakulov,
RUSSIAN, per, Elektricheskie Spantali, Vol XXXIII, 1962,
pp 35-37.

GB/XXX10/3056

Sci - M/M

F. b 64

250,510

Reduction of Clearance of Overhead Transmission
Lines, by Z. E. Kozhanova, et al.

RUSSIAN, per, Elek Stantsii, Vol XXXIV, No 1,
1962, pp 43-45.

NLL Ref: 9022.09 1963 (3111) (Loan)

Sci
Feb 64

Determining the Permissible Degree of Moisture
for Transformer Insulation, by V. I. Zvezdkin.

RUSSIAN, per, Elek Stantsii, No 1, 1962, pp 51-52⁴.

NLL M 5038

Sci - Electron
Apr 63

226,804

To-3 Remote Disconnection Device, by V. S.
Skitaltsev.

RUSSIAN, per, 2 Elektr. Stanstai, Vol XXXIII,
No 1, 1962, pp 60-64.

ALL M 8899

Sci - Engr
Feb 63

223,571

Artificial Limitation of Wind Pressure Loading of
Electric Transmission Towers, by A. V. Saiko,
A. Kh. Khokharin, 7 pp.
RUSSIAN, per, Elektricheskie Stantsii, No 1, 1962,
pp 67-69.
CIA/FDD XX-1561
NO FOREIGN DISSEM

Sci - Elec
Jun 64
USIB Internal Use Only

261,241

Dust Separation in a TsKKB Classifier,
V. V. Lukyanov.
RUSSIAN, per, Elek Stantsii, Vol XXX^{II}, 1962,
pp 77-78
NLL Ref: 9022.09 1964 (3296) (loan copy)

Sci
Aug 64

THE EFFECT OF A LACQUER COATING ON ROTOR
HEATING, BY G. S. DEGIL.

RUSSIAN, PER, ELEK STANTSII, VOL XXXIII, NO 1,
1962, PP 81, 82.

NLL M. 3727

SCI - CHEM

OCT 62

214,177

Conductor Galloping on 110 kV Lines,
by V. N. Andrievskii.
RUSSIAN, per, Elektr. Stantsii, 1962,
No 1, pp 86-87.
NLL 9022.09 1964 (3554) (On Loan)

Aug 65

286,494

Mankina, N. N.
CONDITIONS OF FORMATION OF DEPOSITS IN THE
PRESENCE OF A NUMBER OF SCALE FORMERS
AND METHODS OF THEIR PREVENTION (Ualoviya
Obrazovaniya Odozhenii v Prisutstvi Ryada
Nakipeobrazovatelei i Sposoby Ikh Predotvrashcheniya).
[1962] 17p. (foreign text included) 6 refs.
Order from OTS or SLA \$1.60 63-15699

Trans. of Elektricheskie Stantail (USSR) 1962 [v. 33]
no. 2, p. 13-16.

DESCRIPTORS: *Iron compounds, *Oxides, *Copper
compounds, *Scale, Deposits, *Antioxidants,
Hydrazines, Phosphates, *Feed water, *Boilers.

Hexametaphosphate decreases the rate of iron oxide
scale formation by 65% to 75% and completely prevents
hardness and copper scale. Hydrazine prevents iron
(Chemistry, TT, v. 10, no. 7) (over)

63-15699

1. Mankina, N. N.

Office of Technical Services

The Relation Between the Wet Flashover Voltage
of Insulators and the Duration of the Voltage
and the Intensity of the Rain, by E. V.
Kalinin.

RUSSIAN, per, Elek Stantsii, No 2, 1962, pp 59-62.

ILL N 5039

Sci - Mr Electron
Mar 63

226,802

Gorakli, Yu. M. and Manevich, E. M.
A SEMICONDUCTOR REMOTE PHASE-METER WITH
TAPE RECORDER ATTACHMENT. [1963] [14p] 2 refs
C. E. Trans. 2656.
Order from OTS or SLA \$1.60

63-24079

Trans. of Elekt[richeskii] Sostav (USSR) 1962, v. 33,
no. 2, p. 75-83.

DESCRIPTORS: *Phase meters, *Measuring devices
(Electrical and electronic), Magnetic recording sys-
tems, Remote control systems, Transmission lines,
Design, *Semiconductor devices, Failures (Mechanics),
Detectors.

(Engineering--Electrical, TT, v. 10, no. 12)

63-24079

I. Gorakli, Yu. M.
II. Manevich, E. M.
III. CE Trans-2656
IV. Central Electricity
Generating Board
(Gt. Brit.)

Office of Technical Services

DETERMINING THE EFFICIENCY OF THE CENTRIFUGAL
SEPARATOR OF A ONCE-THROUGH BOILER UNDER INDUSTRIAL
CONDITIONS, BY M. N. KEMEL'MAN.

RUSSIAN, PER, ELEK STANTSII, NO 3, 1962, PP 11-13.

NLL M. 3793

SCI - ENGR

OCT 62

214,181

Akolzin, P. A.
PREVENTION OF ACCUMULATION OF CORROSION
PRODUCTS IN STEAM BOILERS (Preodvraschenie
Nakopleniya Produktov Korrozii v Parovykh Kotlakh)
[1962] 13p. (foreign text included) 4 refs.
Order from OTS or SLA \$1.60 63-15697

Trans. of Elektricheskie Stantsii (USSR) 1962 [v. 33]
no. 3, p. 14-17.

DESCRIPTORS: *Corrosion, *Boilers, Steam, Feed water, Copper, Iron compounds, Oxides, Carbonic acids, Scale, *Corrosion inhibition, Coatings, Corrosion-resistant alloys, Water softeners, Water filters, Cellulose.

(Metallurgy--Corrosion, TT, v. 10, no. 3)

63-15697

1. Akolzin, P. A.

Rept of 2. Inc. 14
TN 7 667 13. 48.

Office of Technical Services

Experience in the Assembly of a 150-MV Unit,
by M. E. Verbitskiy.

RUSSIAN, per, Elektronnaya Stantsia, Vol XXXIII,
No 3, 1962, pp 53-57.

NLL Ref: 9022.09 1963 (2715) (Loan)

Sci - Electron
Feb 64

248,592

Clearance of 220 K KV No-Load Lines, by
P. A. H. H. H. H.

²
GEMAN, per, Electrification Council,
No. 2, 1960, 60-17.

NDIA

Sci-Elec

Oct 63

THE BOILING REACTOR -- A PLANNED UNIT FOR ATOMIC
POWER, BY B. YE. DOROSHCHOOK, YU. N. MAKAROV,
7 PP.

RUSSIAN, PER, ELEKTRICHESKIYE STANTSII, NO 4, 1962,
PP 11-14.

JPRS 15518

USSR
ECON
OCT 62

212,925

Construction of a High-Capacity High-Efficiency
Carbon Dioxide Power Plant, by V. L. Dekhtyarev.

RUSSIAN, per, Elek Stantsii, Vol XXXIII, No 5,
1962, pp 2-6.

NLL Ref: 9022.09 1963 (2702) (loan)

May 64

Anti-Corrosion Protection of Water-Proofed
Equipment, by V.L. Vinarskii.
RUSSIAN, per, Elek. Stantsii, Vol. 13, No. 5, 1962,
pp 19-21.
GB/153/745

Sci -
July 1967

334-566

Anti-Corrosion Protection of Waterproofed
Equipment, by V. L. Vinarskiy.

RUSSIAN, per, Elek Stantsii, No 5, 1962, pp 19-21.

REL M 5095

Sol - Engr
May 63

229,136

Measuring the B Bending Stresses in Austenitic-
Steel Steam Pipes, by V. A. Makhmalov, V. S. Damb.

RUSSIAN, per, Elekt Stantail, Vol XXXIII, No 5,
1962, pp 21-24.

UKAEA-Windscale Tr-63
Available on loan only

Su1 - Elect

Jul 63

238,242

Bering, V. S.
INSTRUMENTS FOR THE LOCATION OF SELF-
CLEARING FAULTS ON A TRANSMISSION LINE.
[1963] [7p] C. E. Trans. 3958.
Order from OTS, SLA, or ETC \$1.10 TT-63-23979

Trans. of Elekt[richeskie] Stantsii (USSR) 1962,
v. 33, no. 3, p. 45-48. (Abstract available).

DESCRIPTORS: *Transmission lines, *Electric cables,
*Failure (Mechanics), Determination, *Measuring
devices (Electrical and Electronic), Design, Operation.

The circuitry, development, and operational tests of
devices for determination of location of transmission
line faults are discussed.

(Engineering--Electrical, TT, v. 11, no. 2)

TT-63-23979

- I. Bering, V. S.
- II. CE Trans-2958
- III. Central Electricity
Generating Board
(Gt. Brit.)

NLL 'LOAN' REF:
9022.09 1963(2,952)

Office of Technical Services

Bulitko, A. D., Deryugin, F. F., and Zarichnaya, A. N.

INSTRUMENT FOR LOCATING THE PROBABLE POSITION OF A TRANSMISSION LINE FAULT. [1963] [6p] C. E. Trans. 2959.

Order from OTS or SLA \$1.10

63-23977

Trans. of Elekt[richeskie] Stantsii (USSR) 1962, v. 33, [no. 5] p. 48-50.

DESCRIPTORS: *Transmission lines, *Failure (Mechanics), Determination, *Ammeters, Design, Operation.

The basic circuitry and output characteristics of the AI-2 device (pulse ammeter), used to locate faults in transmission lines by registering the zero-sequence current of a line, are discussed. The basic element of the device is a mass-produced millicoulomb meter type M-368. (Engineering--Electrical, TT, v. 10, no. 12)

63-23977

- I. Bulitko, A. D.
- II. Deryugin, F. F.
- III. Zarichnaya, A. N.
- IV. CE Trans-2959
- V. Central Electricity Generating Board (Gr. Brit.)

NLL (LOAN) R&T:
9022.08 1963 (2,959)

Office of Technical Services

Eftimov, V. M.
FAULT LOCATION ON ELECTRICAL TRANSMISSION
LINES. [1963] [Sp] C. E. Trans. 2960.
Order from OTS, SLA, or ETC \$1.10 TT-63-23970

Trans. of Elekt[richeskie] Stantsii (USSR) 1962,
v. 33, no. 5, p. 51-52. (Abstract available)

DESCRIPTORS: *Transmission lines, *Electric cables,
*Failure (Mechanics), Determination, *Measuring
devices (Electrical and Electronic), Design, Operation.

An apparatus for automatic measurement of a fault
voltage (AMFL) is described. The device enables the
distance to the point on the line at which the fault has
occurred to be determined by measurement of the zero
or negative sequence voltage across the ends of the
damaged line at the moment of the short-circuit. The
action of the AMFL is as follows: when there is a short-
(Engineering--Electrical, TT, v. 11, no. 2) (over)

TT-63-23970

I. Eftimov, V. M.
II. CE Trans-2960
III. Central Electricity
Generating Board
(Ox. Brit.)

NLL(LOAN)RFR
9022.09 1963/2,960

Office of Technical Services

KHTGZ STEAM TURBINE UNITS FOR POWERFUL ELECTRIC
POWER BLOCKS, BY L. A. SHUBENKO-SHUBIN, 5 PP.

RUSSIAN, PER, ELEKTRICHESKIYE STANTSII, NO 6,
1962, PP 2-8.

JPRS 15608

USSR
ECON
OCT 62

NEW REF: 902203 1963 (3362) 213,456
(LOAN COPY)

SPECIFIC FEATURES OF THE TPP-110 SUPERCRITICAL
PRESSURE BOILER, BY L. A. OSTROVSKIY,
M. V. MEYKLYAR, 14 PP.

RUSSIAN, PER, ELEKTRICHESKIYE STANTSII, NO 6,
1962, PP 8-14.

JPRS 15608

USSR
ECON
SCI -ENGR
OCT 62

213,457

The Utilization of Sulfurous Mazout
for High-Capacity Electric Power
Stations, by Z. F. Chukanov.
RUSSIAN, per, Elektricheskie Stantsiya,
No 6, 1962, pp 21-27.
NTC 72-11214-21D

May 72

The Operation of the 200 MW Unit Turbine
Equipment in the Zmievskoi State Regional
Electric Power Station, by A. Ya. Krol.

RUSSIAN, per, Elek Stantsii, Vol XXXIII,
No 6, 1962, pp 27-31.

NLL Ref: 9022.03 1963 (3363)
(loan Copy)

Sci
Sep 64

Use of the Reinforcements in the Concrete of a
Hydro-electric Power Plant Building as a Grounding
System, by V. P. Brimerberg, 25 pp.

RUSSIAN, per, Elektricheskiye Stantsii, No 6,
1962, pp 44-45.

AEC/SLAC-Tr-113-70

Sci/Ener Conv

The Cleaning of Live Insulators by a Discontinuous
Stream of Water, by M. P. Fedotov,
RUSSIAN, per, Elek Stantii, Vol XXXIII, No 6, 1962,
pp 66-69.
CEGB 3137

Sci - Engr
Apr 64

255,121

Protecting the Blades of Steam Turbines Against
Erosion, by A. M. Kornienko.

RUSSIAN, per, Elek Standart, No 6, 1962,
pp 3 73-74.

ILL N 5027

Sci - Engr
Mar 63

226,801

Power Losses in a Turbine Stage Due to the Lashing
Wires, by I. I. Kirillov, R. B. Kuz'michev.

RUSSIAN, per, Klek Stantsii, No 7, 1962, pp 38-42.

NIL M 5030

Sci - Engr
Mar 63

226,543

Designing h.v. Insulators for Heavily
Polluted Regions, by S. G. Sokolov.

RUSSIAN, per, Elek Stant, Vol XXXIII, No 7,
1962, pp 59-64.

NLL Ref: 9022.09 1964 (3355) (loan)

May 64

Fuks, L. A.
TYPE AK-10 TURBOGENERATOR UNDER STEAM
AND STEAMLESS CONDITIONS. [1963] [5p]
C. E. Trans. 2947.
Order from OTS or SLA \$1.10 63-23967

Trans. of Elekt[richeskie] Stantsii (USSR) 1962
[v. 33] no. 7, p. 84-85.

DESCRIPTORS: *Turbines, *Generators, Steam,
Electric power production, Feasibility studies.

Studies were conducted on a type AK-10 turbogenerator
to determine the feasibility of adapting it for steamless
conditions, without any important changes in the
turbine design. Observations were recorded on change-
over of the turbogenerator from steamless to steam
conditions of operation. Operation of the AK-10
turbogenerator for over three years on the mixed
operating routine proved it to be perfectly reliable.
(Engineering--Mechanical, TT, v. 10, no. 12)

63-23967

I. Fuks, L. A.
II. CE Trans-2947
III. Central Electricity
Generating Board
(Ot. Brk.)

NLL(LOAN)47-
9022.09 1963 (2,947)

Office of Technical Services

Graphical Method for Determining Heat Losses in Boiler Tests, by B. I. Loginov.

RUSSIAN, per, Elek Stantsii, Vol XXXIII, No 8, 1962, pp 9-12.

NLL Ref: 9022.09 1963 (2970) (Loan)

Sci
Feb 64

AUTOMATION OF THE MODE OF OPERATIONS IN
POWERFUL HYDROELECTRIC POWER STATIONS AND
400-500 KILOVOLT POWER LINES, BY S. A. SOVALOV,
M. A. BERKOVICH, 23 PP.

RUSSIAN, PER, ELEKTRICHESKIYA STANTSII, NO 8,
1962, PP 37-46.

JPRS 16265

SCI & ELECTRONICS

NOV 62

219,772

Starting-up Large Synchronous Compensators by
Direct Connection to the Main, by P. B. Kuznetsov-Zade.

RUSSIAN, per, Elek Stantsii, No 8, 1962, pp 47-49.

HL N 5190

Sci - Electron
May 63'

229,796

A Discussion on the Packings of Turbo-Generators
With Hydrogen Cooling, by O. B. Golodnova, et al.

RUSSIAN, per, Elek Stantsii, No 8, 1962, pp 60-63.

ML N 5151

Sci - Electron
May 63

129,801

STARO-BESHEVSKAYA STATE REGIONAL ELECTRIC
POWER STATION, BY T. YA. LIPOVETSKIY, 8 PP.

RUSSIAN, PER, ELEKTRICHESKIYE STANTSII, NO 9,
1962, PP 2-7.

JPRS 16569

USSR
ECON
DEC 62

217,319

Protection of 150- and 220-kv Substations Against
Lightning, by I. F. Polovoi, I. D. Peshenkin.

RUSSIAN, per, Elek Stantsii, No 9, 1962,
pp 69-73.

MLL Ref: 5883.4 1963 (5865)
(Loan)

Sol - Electron
Jul 63

251,352

A Discussion on the Seals of Turbo-Generators
With Hydrogen Cooling, by G. S. Degil'.

RUSSIAN, per, Elek Stantsii, No 9, 1962, pp 77-85.

NLL Ref: 9022.03 1963 (3283) (Loan)

Sci
Feb 64

Silica Deposits in Turbine Indicators, by
Yu. V. Zenkevich, B. G. Dementev.

RUSSIAN, per, Elek Stantsii, Vol XXXIII, No 10,
1962, pp 29-33.

NLL Ref: 9022.09 1963 (3032) (Loan)

Sci
Feb 64

Embrittlement Fractures of Pipes in High Pressure
Power Stations, by I. N. Laguntsov, et al.

RUSSIAN, per, Elek Stantsii Vol XXXIII, No 10,
1962, pp 33-35.

NLL Ref: 9022.09 1963 (3079) (Loan)

Sci
Feb 64

CE 46 3079

The Permissible Degree of Moisture in Transformer
Insulation, by V. N. Zvezdikin.

RUSSIAN, per, Elek Stantsii, No 10, 1962, pp 60-62.

MLL Ref: 5828.4 1962 (5,230) (loan)

Sci - Electron
Jul 63

236,118

Melting of Ice Loads on Conductors and Earth
wires of 400 to 500 kV Transmission Lines,
by V. A. Vershkov.

RUSSIAN, per, Elek Stantsii, Vol XXXIII, No 10,
1962, pp 72-75.

NLL Ref: 9022.09 1963 (3110) (Loan)

Sci
Feb 464

Cr-277/62
BD-30-62

DC-8329

Decree of the Presidium of the Supreme Soviet USSR.

RUSSIAN, per, Elektricheskiye Stantsii, No 11, 1962,
pp 2, 3.

*JPRS

USSR
Dec 62 Econ

Size of Condensing Power Stations as Limited by
Considerations of Air Pollution, by V. G. Zhilin.

RUSSIAN, per, Elek Stantsii, Vol XXXIII, No 11, 1962,
pp 20-27.

NLL Ref: 9022.09 1963 (3238) (loan)

May 64

Nozzle Dust Collector, by A. A. Gurvits.
RUSSIAN, per, Elek Stantall, Vol XXXIII, No 12, 1962,
pp 10-13.
CEGB 3062

Sci - Engr
Apr 64

255,130

Operating Experiences With Wilite Surge
Diverters, by D. V. Shishman, A. A. Gurevitch.

RUSSIAN, per, Elek Stantail, Vol XXXII, No 12,
1962, pp 46-51.

CFSTI TT-64-23941

NLL Ref. 9022.03 1963 (3,311)

Sci - Electron
Nov 63

242,253

Khomyskov, M. V.
ELIMINATING CONTAMINATION OF INSULATION
IN SUB-STATIONS AND ON OVER-HEAD LINES.
[1963] [8p] C. E. Trans. 2919.
Order from OTS or SLA \$1.10 63-23971

Trans. of Elek[tricheskie] Stantsii (USSR) 1962
[v. 33] no. 12, p. 51-54.

DESCRIPTORS: *Transmission lines, *Electric
insulation, Contamination, Electric discharges,
Weatherproofing, Moistureproofing, Oils, Cleaning.

(Engineering--Electrical, TT, v. 10, no. 12)

63-23971

I. Khomyskov, M. V.
II. CE Trans-2919
III. Central Electricity
Generating Board
(Gr. Brit.)

NLL (LCAL) REF:
9022.09 1963(2,919)

Office of Technical Services

Protection of h.v. Transmission Lines Against
Wet Snow, by V. S. Basov, *ipr*

RUSSIAN, per, Elek Stantsii, Vol XXXIII, No 12,
1962, pp 58-62.

OTS TT-63-23976
NLL Ref. 9022.09 1963 (2, f20)
(Loan)

Sci - Electron
Nov 63

242,348